

What claimed is;

1. An optical actuator comprising:

a focusing lens for focusing a laser beam on a information disk;

a holder for holding said focusing lens;

a focusing coil for driving said focusing lens in an axial direction of said laser beam;

a tracking coil for driving said focusing lens in a radial direction of said information disk;

a tilting coil for pivotally rotating said focusing lens on an axis along the tangential direction of the disk;

a pair of supporting members each disposed on each of two opposing sides of said holder, each of said supporting members having at least three fixing elements disposed in an approximately circular arc; and

a plurality of linear elastic members connected to each of said fixing elements.

2. The optical actuator according to claim 1, wherein

said linear elastic members connected to each of said fixing elements are disposed on a cylindrical surface.

3. The optical actuator according to claim 1, wherein

said tracking coil is fixed on a side of said holder, and an outer side of said tracking coil is disposed outside of said holder.

4. The optical actuator according to claim 1, wherein said tracking coil is fixed on a side of said holder, and an outer side of said tracking coil is disposed outside of said linear elastic members.

5. The optical actuator according to claim 1, wherein single tracking coil is disposed on a side of said holder facing a permanent magnet.